Denise Juneau

Montana Office of Public Instruction

2009 National Assessment of Educational Progress

Trends in Mathematics for Montana

opi.mt.gov

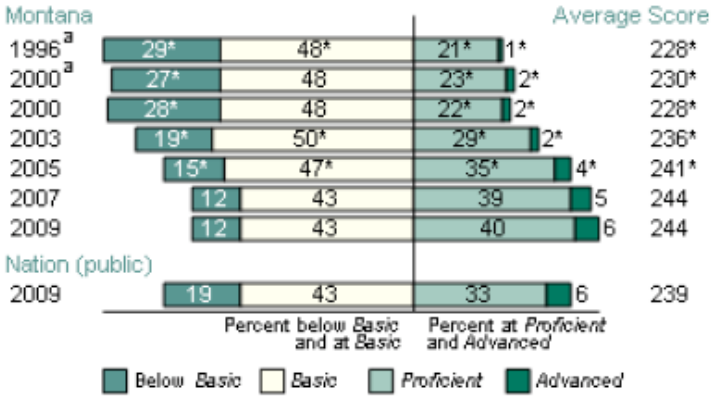
NAEP MONTANA NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS

GRADE 4

Montana Results—GRADE 4 Math

- In 2009, the average score of 4th-grade students in Montana was 244. This was higher than the average score of 239 for public school students in the nation.
- Montana 4th graders scored better than students in all but four other states (MN, VT, NH, and MA).
- The average score for students in Montana in 2009 (244) was not significantly different from their average score in 2007 (244) and was higher than their average score in 1996 (228).
- The percentage of students in Montana who performed at or above the NAEP *Basic* level was 88 percent in 2009. This percentage was not significantly different from that in 2007 (88 percent) and was greater than that in 1996 (71 percent).
- The percentage of students in Montana who performed at or above the NAEP *Proficient* level was 45 percent in 2009. This percentage was not significantly different from that in 2007 (44 percent) and was greater than that in 1996 (22 percent).

Achievement Level % and Average Score Results

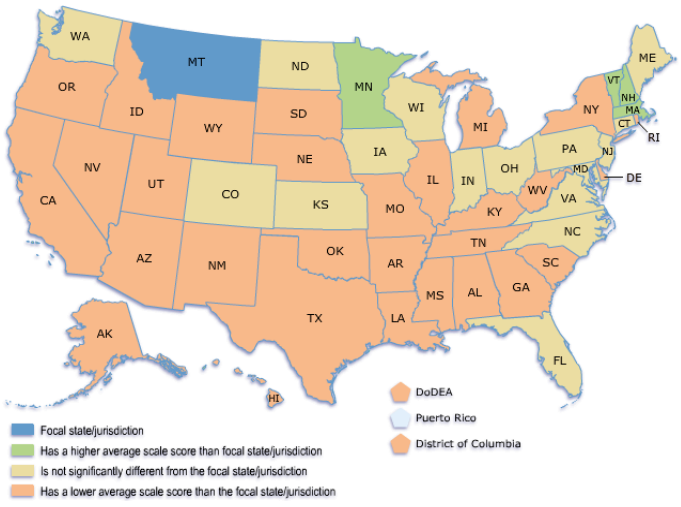


* Significantly different ($p < .05$) from state's results in 2009.
a Accommodations not permitted.

NOTE: Detail may not sum to totals because of rounding.

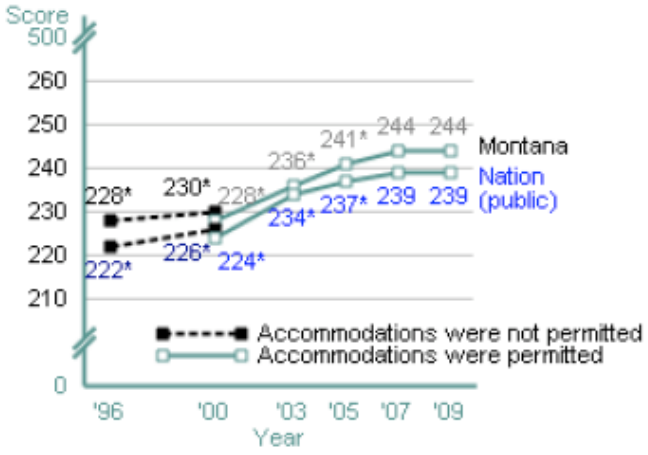
See definitions of Basic, Proficient, and Advanced on p. 2

Compare the Average Score in 2009 to Other States



Green states scored higher than Montana (4).
Yellow states scored within the same grouping by statistical significance (16).
Orange states scored lower than Montana (31).

Compare the Average Score to Nation (public)



* Significantly different ($p < .05$) from 2009.

[**Source**: US Dept. of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1990-2009 Mathematics Assessments. October 14, 2009.]

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Montana Results for Student Groups 2009—GRADE 4 Math

	Reporting Groups	Percent of Students	Avg. Score	Percentages at or above		Percent at
Reporting Groups				**Basic**	**Proficient**	**Advanced**
Gender						
	Male	51	247	90	49	7
	Female	49	242	86	41	5
Race/Ethnicity						
	White	83	247	91	49	6
	American Indian	12	228	68	23	2
	Free/Reduced Lunch Program Eligible	41	235	81	31	2
	Not Eligible Free/Reduced Lunch Program	57	251	94	56	8

Note: Detail may not sum to totals or 100% because of rounding and because of information not available or statistically insignificant totals not included.

Score Gaps for Student Groups—GRADE 4

- In 2009, male students in 4th grade in Montana had an average score that was 5 points higher than that of female students. This performance gap was not significantly different from that in 1996 (3 points).
- In 2009, the average score for American Indian students in 4th grade increased 5 points from 2007.
- In 2009, 4th grade students who were eligible for free/reduced-price school lunch, an indicator of poverty, had an average score that was 15 points lower than that of students who were not eligible for free/reduced-price school lunch. This performance gap was not significantly different from that in 1996 (17 points).

Definitions

GRADE 4 *Basic (214)* Fourth-grade students performing at the *Basic* level should show some evidence of understanding the mathematical concepts and procedures in the five NAEP content areas.	**GRADE 4 *Proficient (249)*** Fourth-grade students performing at the *Proficient* level should consistently apply integrated procedural knowledge and conceptual understanding to problem solving in the five NAEP content areas.	**GRADE 4 *Advanced (282)*** Fourth-grade students performing at the *Advanced* level should apply integrated procedural knowledge and conceptual understanding to complex and non-routine real-world problem solving in the five NAEP content areas.

[**Source**: US Dept. of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1990-2009 Mathematics Assessments. October 14, 2009.]